

# SEQUENCE LISTING

<110> Jarrett, Paul  
Ellis, Deborah  
Morgan, James

<120> Pesticidal Agents

<130> 0380-PO1838US0

<140> 09/242,843

<141> 1999-11-18

<150> PCT/GB97/02284

<151> 1997-08-27

<150> GB 9618083.1

<151> 1996-08-29

<160> 1

<170> FastSEQ for windows Version 3.0

<210> 1

<211> 38258

<212> DNA

<213> Xenorhabdus

<220>

<221> misc\_feature

<222> 35490, 35492, (35499)...(35519)

<223> n at any position = a or c or g or t

<400> 1

tccacaaattg	ccggagaaaa	tcagtcggga	actgccgggtg	attattcgtc	acttattaaa	60
cgaatttgcc	gaccagaata	aggctaataa	actgctacag	gcgcaacgcg	actcgaacga	120
agcgtaaagc	gtaaagagtc	attcggatcc	gctgtatcgc	ttttgtgggt	atctgggtgtc	180
tgtaaatgat	atgaccggaa	tgaagatggg	caataaaaaa	attagcccac	gagcaccgag	240
attgtacttg	tatcatgcct	atctctcttt	tatggaagcg	cacggctttg	aacgtccggt	300
aacactgact	aagtttggtg	aatccatccc	caagattatg	ctggaatacc	ggaaggagta	360
tcgaaaagtg	cgaaccaaga	aaggctattc	ctataacgtg	gaattatcgg	aagaggccga	420
agaatggcta	ccgtcagtg	ctgagtgctg	agacttttaa	tcacctgtat	aaaactttga	480
gctttaagtc	tgcactccat	acacaactta	aaatatctaa	ttgtatttaa	aagaaaataa	540
tagatgtata	gttatttttt	aactatacat	aagctctaca	tgctcttcac	tcgtgtaaaa	600
aatgggtgaa	cagggtgatac	agtcagtgaa	tatcatatta	attaccgtaa	accagatgt	660
agcaaggctt	tcagggaatt	gtgcagaggg	tgcataactg	agaggggtgaa	aaagattttc	720
aggggggctt	atggcaggta	aacaaaatca	gaagcaaata	ccgtgcacaa	tctgggtttt	780
attttttggt	actacctcaa	attaaaatga	tgtaatcatc	tgattttatt	taagaataga	840
agttaatcac	aatttctattg	atggactttc	attcacactg	gtatagataa	ataattctgt	900
tatatcctgt	ttcattacgc	attcatcagg	agtgcgtgta	caggagacaa	gaatgtcaca	960
catcatttac	ttgtcgttaa	agggcaagaa	gcagggttta	atttcagcgg	gttggtcaac	1020
gcctgaatca	attggaaatc	gctatcaaaa	aggacgtgaa	gatcaaatac	aggtattgag	1080
cctgaatcat	tcgatgagcc	gtgaccagaa	tgtaatcat	caaccgcgtc	gttttgtaga	1140
accattgat	aaatcctctc	ccctgtttgc	tggtatgccg	ttttgtgcat	tacaggacaa	1200
gccagatggg	acaactggag	ttcttttatg	aaatcaagct	gaccagtgcc	acgattgtgg	1260
atatttccta	taattattccg	gcattcaatc	aatgataatg	gtgcgatacc	ccatgaagtg	1320
gtgatgctcg	attataagtc	catttcatgc	aaccacatcg	ccgcaggact	tcgggctaca	1380
gcatacgcaa	ttagccggaa	gtgaagaagc	aagccgcttt	tatctggggg	ctcgaatggt	1440
aagccactta	agaagccgct	ggttgaagaa	accccggtta	aacccgctaa	acatcatgcc	1500
cgttatcggt	gtgtggatga	tgacggcaat	cttttaaccg	aacgcaagta	tcgggtttgc	1560
ctgccggatg	gtcagataaa	agaaggaaag	actgataaac	aaggttacac	ccaatggcat	1620
cttacggatg	acaaaaataa	acttgaattg	catattttaa	aggattaata	ccatgccagc	1680
ctataccggt	cagacaaaaa	tagaatccaa	cgtacctgtt	gaaaacctgc	tttacgactt	1740
aaccatttat	cgtaaggatg	caaaaggaaa	tttccatatc	ttgcttgatg	tttttcagga	1800
gaaactacag	agtaattatg	aaacacaaca	gcatatcacg	caggaaatag	acgacgatct	1860
ttctgtgatt	tattattatgc	aaattatgct	tcaccgcaaa	catggctcaa	atataatttc	1920
ggcactgcaa	acccatttta	agaaaatgta	taccctcggt	gaatttaact	ccggtaaaagc	1980
ctgttcggag	aaaaaacggg	aaaatgcctg	ttattttgaa	agtacagttg	aaacaaaacc	2040
tgtcagcgac	ggggataata	ccgttgactt	aaatatcact	attcctgaac	gaccttttat	2100

tgccaaagaa	tatcccattg	gtcaccacac	cgatccattt	gaaaaaagta	aaattgaatc	2160
ataaatacag	gacagggttat	cgaaaaagaat	ttatccggat	caaaatggag	caagtttatg	2220
tcagggcgcg	agcacactat	tttagctgcg	tttttaagat	gattatctct	taatgttcag	2280
ttttaatagt	gtttttatcg	agtgaatttt	aatcgcacag	gcaattcttt	agacttttat	2340
agaaaaactaa	agaattaaag	aacaagattg	acattttaag	ttcaaataat	aatcaaagta	2400
tgctcgcgcc	ctgagtttat	gtggccctgc	cgcttttttt	tattgcctgc	caatagatag	2460
accagatatt	tatgagcaag	cggcacgaga	attatggcaa	tatggccgaa	ctaaaaattg	2520
tcaactggaa	attaagccgg	gtgaggggtg	ccgacatcct	aaagggtactt	tttataatca	2580
atatggtgaa	agaatatctg	ggtttagattg	gctgacattg	gcaagcctaa	gagattcaga	2640
aaatatgatg	atgaggttga	tgatgaagta	gctggtatta	caatgtgggg	aaaaattgaca	2700
gaatggtttg	aaaaatcagg	gtatgaaaaa	gtatttagta	atgtcggctt	atcccattct	2760
aatataaatg	acatagtaac	tcttagtgat	tactataaca	aaggatatca	tgttgttact	2820
ttgatttcag	caggaatggt	atcagatttt	ggtgacatag	aaacatcagg	aaaaaatcat	2880
tggatagttt	gggaaggagt	agtagaaaaa	tatgagaaag	aaaatatcac	aaataattca	2940
gatctgaatc	aatatgtaaa	tttaaactcg	ttttcatggg	gtaaagtgga	acatcaaat	3000
aaaaaaaaaca	aatcactaga	ttatgtactc	aaccataattt	tttgagggtt	ggtttttaaa	3060
ccaatgaaat	aacatgaaaa	aaatatatta	tatttttatt	tttttacttt	atggttgtgg	3120
taatccaacg	ccaaaagttt	taccaaaatc	agagtttctt	cctgatgcag	tgataaatga	3180
accatatcag	gcataaatta	ccatcacagg	aggtgcattg	aatgaaaaaa	gcgtttgggt	3240
aaaaattcat	cctatggct	caggactaac	atggaatcca	aaagatagtt	cttttctata	3300
gggtggaaaa	aaagaaataa	gaaaagatta	tcatacatata	aatataacag	gtaccccaaa	3360
gaagacagaa	ttgataaaaa	ttgaagtggg	aggatttaca	ttgggtacaa	tgtacgcacg	3420
gaaagagttc	actataaatt	atactataaa	agtaagggaa	taattgtcac	tatcagaatg	3480
gtgatttaatt	tcgccatttt	tatacttttg	tatactctct	caacataatc	aggattcttt	3540
cttattattt	ttcatggtgc	taaaaacggt	tattgcaaaa	ataaattaa	ttaatcagat	3600
aaattatctg	cattactgtt	ataatcgata	acacgataac	ctgactttct	gcctgttctt	3660
atgaactcga	agataatcct	ttctgagcct	gaacgaatca	cattgcaacc	actcgctttg	3720
aatcaccacac	accgggacat	tcgtacgcga	ggaacggggt	tactcatgct	tgccagaggg	3780
agcaagccgt	cccagatcac	cgctgaaatc	ggatgcagtc	tccgggttat	ctgtaattgg	3840
gttcacatgt	ggcacagata	gcgggattat	tcggcgggtca	tgccggaggc	cggtatctcg	3900
ccatgacgcc	tgacatgatt	gccactgcgc	tcgaagccgc	cagcgcagag	tccctgacgt	3960
gcgtcgaagc	caggcagggt	ttccctgcct	tgtacgcttg	aaacgctggc	gaataccctg	4020
aaaaaacagg	ggctccccta	taaacgcccc	cgctgtcgc	ttaaaaaaag	cgcaataaaa	4080
cggagtttgc	tgaaaaatcc	gccttgctga	ataaaattaa	ggccggagca	cagtcaggac	4140
attaccgtct	ggcttatatt	gagttctggg	ggcgttaaat	tacacggata	acacgtgtt	4200
ttaccagaca	acgtcaggca	gtatcacgcg	agatgacgtg	attgattttt	tagagccggt	4260
ggccagacaa	gggacaaccg	cctgacattt	ttagtgttgg	ataatgcgcg	tatccatcac	4320
gggatagagg	aaaaaatcag	aaatggcggg	tgacgagaac	acaacctgtt	tttattctat	4380
cttccgcgtt	acagcccaga	gctgtatctg	attgaaatcg	tctggaacaa	ggccaaatac	4440
gactggcgac	gttttatcac	ctggactcag	gatacaatgg	aatatgaggt	aaatacttta	4500
ttgaaagggt	atggcgacca	atttgcaatt	aacttttctt	gagtacttag	taagaataga	4560
gtcagtcgag	gttttttcat	ttcgggtcgt	ggggatgata	ctgaaaattt	gtttgtaatc	4620
tctgaaaaat	gctgtttctg	tggtctacgtc	tgtcttttgg	gatattgttt	ccatcaagtc	4680
tgtcaacata	ctgttaagtt	agatgttgat	aaaagagact	gaattataat	acaaaacaat	4740
aaatcacttg	gacaatat	tatttcacat	gagacattaa	ggttgatttt	cccaatctgg	4800
tcagttataa	ccgaataaag	atcttgaaaa	atcatgggat	cttactttta	tcaaataaag	4860
ttaacgtaaa	agttgataaa	gaaaattatt	taatttctaag	tgccgttggc	ataaatattt	4920
tgtgttttgt	taattgaatg	ataaccaggt	aaagctggat	ttcatttttt	aattactcgt	4980
tacaatatgc	tattttatta	tataaagagt	ttgtgcccac	ttaaccagta	aacaaatttg	5040
ttcaaccgta	acttagcttc	atcgactttt	ggcctcgctt	ggtcagaatc	tagggccggt	5100
atcctattta	tttatgataa	ataaaaattta	attatcttta	ataagctgaa	tatgtggatt	5160
tgtgctcaat	cttggaattca	agtatgtatt	ccttttggtta	ccctgcttta	ttttaaggca	5220
gatgaagagg	atgccaacat	gacacaatat	cgattacgac	tgtaacatta	aagtcagtta	5280
taaaattttat	gattaaaatg	aaatttttagt	agaaaaatcgt	attctatttc	gccattttaca	5340
atagcatcct	ctttaatatc	attaatctca	gataaaacaa	ataattacaa	tgtgaataga	5400
ataatgactt	acaaaataag	cactaaatct	tcagatgaac	tcttaactga	caacactatt	5460
ttataaaata	attgaggtta	ttatgtatag	cacggctgta	ttactcaata	aaactcagtc	5520
cactcgcgac	ggtcagacga	tgactcttgc	ggatctgcaa	tatttatcct	tcagtgaact	5580
gagaaaaatc	tttgatgacc	agctcagttg	gggagaggct	cgccatctct	atcatgaaac	5640
tatagagcag	aaaaaaaaata	atcgcttgct	ggaagcgcgt	atttttaccc	gtgccaaacc	5700
acaattatcc	ggtgctatcc	gactcggtat	tgaacgagac	agcgtttcac	gcagttatga	5760
tgaaatggtt	ggtgcccgtt	cttcttcctt	tgtgaaaccc	ggttcagttg	cttccatggt	5820
ttcaccggct	ggctatctca	ccgaattgta	tcgtgaagcg	aaggacttac	atttttcaag	5880
ctctgcttat	catcttgata	atcgccgtcc	ggatctggct	gatctgactc	tgagccagag	5940
taatatggat	acagaaattt	ccaccctgac	actgtctaac	gaactgttgc	tgagactatt	6000
acccgcaaga	ccggaggtga	ttcggagcga	ttgatggaga	gcctgtcaac	ttaccgctcag	6060
gccattgata	ccccttacca	tcagccttac	gagactattcc	gtcaggtcat	tatgacccat	6120
gacagtacac	tgtcagcgct	gtcccgtaat	cctgaggtga	tggggcaggc	ggaaggggct	6180
tcattactgg	cgattctggc	caatatattct	ccagaactgt	ataacatttt	gaccgaagag	6240

attacggaaa	agaacgctga	tgcttttattt	gcgcaaaaact	tcagtgaaaa	tatcacgccc	6300
gaaaaatttcg	cgtcacaatc	atggatagcc	aagtattatg	gtcttgaact	ttctgaggtg	6360
caaaaataacc	tcgggatgtt	gcagaatggc	tattctgaca	gcacctctgc	ttatgtggat	6420
aatatctcaa	cgggtttagt	ggtcaataat	gaaagtaaac	tcgaagctta	caaaaataaca	6480
cgtgtaaaaa	cagatgatta	tgataaacat	gtaaattact	ttgatctgat	gtatgaagga	6540
aataatcaat	tctttatatg	tgctaatttt	aagatatcga	gagaatttgg	ggcgactctt	6600
aggaaaaaact	cagggacaag	tggcattgtc	ggcagccttt	cgggtcccct	ggtagccaat	6660
actaatttca	aaagcaatta	cttaagtaac	atatctgata	atgaatacag	aaatggcgta	6720
aaaaatatatg	cctatcgcta	tacgtcttcc	accagcgcca	caaatacagg	cggcggaata	6780
ttcacttttg	agtcttatcc	cctgactata	tttgcgctca	aactgaataa	agccattcgc	6840
ttgtgcctga	ctagcgggct	ttcacccaat	gaactgcaaa	ctatcgtacg	cagtgacaat	6900
gcacaaggca	tcatacaacga	ctccgttctg	accaaaagttt	tctatactct	gttctacagt	6960
caccgttatg	cactgagctt	tgatgatgca	cagggtactga	acggatcggg	cattaatacaa	7020
tatgcccagac	gatgacagtg	tcagtcattt	taaccgtctc	tttaataccc	cgccgctgaa	7080
agggaaaaat	tttgaagccg	acggcaacac	ggtcagcatt	gatccggatg	aagaacaatc	7140
tacctttgccc	cgttcagccc	tgatgcgtgg	tctggggatc	aacagtgggtg	aactgtatca	7200
gttaggcaaaa	ctggcgggtg	tattggacac	acaaaaatctc	ctcacacttt	ctgtccctgt	7260
tatatcttca	ctgtatcgcc	tcacgttact	ggcccgtgcc	catcagctga	cgggttaatga	7320
actgtgtatg	ctttatgggt	tttcgccgtt	caatggcaaa	acaacggcct	ctttgtcttc	7380
cggggaggtg	tcacggctgg	ttatctgggt	gtatcaggtg	acgcagtggc	tgactgaggg	7440
cggaaatcac	cactgaagcg	atctgggttat	tatgtacgcc	agagttcagc	gggaatatgt	7500
caccggaaat	cagtaatctg	cttaatactc	tccgaccccg	tattagtga	gacatggcac	7560
aaagtagtga	ccgggagctt	caggctgaaa	ttctcgcgcc	gtttattgct	gcaacgcctgc	7620
atctggcgct	accagatatg	gcgcgggtata	tcctgttggg	gactgataac	ctgcggccgg	7680
gcggcctgaa	tttatgccga	tttatgatgc	tggtgctgaa	agagacgctg	agtgatgaga	7740
aaacgaccca	actggttcaa	ttctgccatg	taatggcaca	gttatcgctt	tccgtgcaga	7800
cactgctct	cagtgaagca	gagctttctg	tgctggctcat	ttccgatttt	gtggtactgg	7860
gtgcgagaag	ccaaccgcgg	gacaacacaa	tattgatact	ctgttctcac	tctaccgatt	7920
ccaccagtg	attaatgggc	tgggaaatcc	cggctctgac	acgctggata	tgctgcgcca	7980
agcagacact	cacgggcgac	agactgggccc	tccgtgatgg	ggctggacat	cagtatggta	8040
acgcaggcca	tgggttcccg	ccggcgtgaa	ccaacttcag	tggtggcagg	atatcaaccc	8100
cgtgttgag	tggatacatg	tggcatcagc	actgctcact	gatgccgctg	gttatccgta	8160
cgctggtgaa	tatccgttac	gtgactgcat	taaacaagc	cgagtcgaat	ctgcctgcct	8220
gggataagtg	gcagacgctg	gcagaaaaata	tggcagccgg	actgagtaca	caacaggctc	8280
agacgctggc	ggattatacc	gcagagcgcc	tgagtaacgt	gttggtgcaat	tggtttctgg	8340
cgaatatcca	gccagaagg	gtgtccctgc	acagccggga	tgacctgtac	agctatttcc	8400
tgattgataa	tcaggtctct	tctgccataa	aaaccacccg	actggcagag	gccattgccg	8460
gtattcagct	ctacatcaac	cgggcgtgta	accggataga	gcctaattgc	cgtgccgatg	8520
tgtcaacccg	accgactgga	cgggtgaataa	acggttacagc	ccgttacagc	acctggggcg	8580
gggtgtcgcg	gctggtttat	tatccggaaa	attacattga	cccgaaccag	cgtatccggc	8640
agacccggat	gatggatgaa	ctgctggaag	atatcagcca	gagtcagctc	agccgggaca	8700
cgggtggaaga	ggcctttaaa	acttacctga	ccgctttgaa	accgtggcag	acctgaaagt	8760
tgtcagcgct	atcacgcaga	acgtcaacag	caacaccgga	ctgacctggg	ttgtcggcca	8820
aacgcgggag	aactctgccg	aatattactg	gcgtaacgtg	catatatcac	ggatgcaggc	8880
gggtgaaactg	gccgccgatg	cctggaaaga	ttggacgaag	attgatacag	cgggtcaaccc	8940
atacaaggat	gcaatacgtc	cggtcataat	cagggaacgt	ttgcacctta	tcgtgggtag	9000
aaaaagagga	agtggcgaaa	aatgggtactg	atccgggtgga	aacctatgac	cgttttactc	9060
tgaaactggc	gtttctcgct	catgatggca	gttgagatgc	cccctggctc	tacgatatac	9120
caacgcaggt	ggaggcggtc	actgacaaaa	aacctgacac	tgaacggctg	gcgctggccg	9180
catcaggctt	tcagggcgag	gatactctgc	tggtgtttgt	gtacaaaacc	ggggtgagtt	9240
acccggattt	tggcgacaac	aataaaaaatg	tggcaggcat	gaccatttac	ggcgatggct	9300
ccttcaaaaa	gatggagaac	acagcactca	gcgttacagc	caactgaaaa	atacctttga	9360
tatcattcat	actcaaggca	acgacttggg	aagaaaggcc	agctatcggt	tcgcgcagga	9420
ttttgaagtg	cctgcctcgt	tgaatatggg	ttctgccatc	ggatgatgata	gtctgacggg	9480
gatggaaaac	gggaatatcc	cgcagataac	cagtaaatac	tccagcgata	accttgctat	9540
tacgctacat	aacgccgctt	tcactgtcag	atatgatggc	agtggcaatg	tcatacagaaa	9600
caaacaatat	agcgccatga	aactgacggg	gttgatgaa	agtcccagta	cggcaatgca	9660
tttatcatcg	taaacattcg	taaacattat	ggcggttact	ctgatctggg	gggcccagtc	9720
accgttttta	ttaaaacgga	aaaactatat	tgcatcagtt	caaggccact	tgatgaacgc	9780
agattacact	aggcgtttga	ttctaaccac	agttgaaaat	aattattatg	ccagattggt	9840
cgagtttcca	ttttctccaa	acacaatttt	aaacaccggt	ttcacgggtg	gtagcaataa	9900
aaccagttag	tttaaaaagt	gcagttatgt	tgttgatggg	aataattctc	agggcttcca	9960
gatatttagt	tcctatcaat	catccggctg	gctggatatt	gacacaggta	ttaaacaatac	10020
tgatgtcaaa	attacgggtg	tagctggcag	taaaaccac	acctttacgg	ccagtgaacca	10080
tattgcttcc	ttgccggcaa	acagttttga	tgctatgccg	tacaccttta	agccacttga	10140
aatcgatgct	tcactggttg	cctttaccaa	taattattgct	cctctggata	tcgtttttga	10200
gaccaaagcc	aaagacgggc	gagtgctggg	taagatcaag	caaacattat	cggtgaaaacg	10260
ggtaaattat	aatccggaag	atattctggt	tctgcgtgaa	actcattcgg	gtgcccaata	10320
tatgcagctc	ggggtgtatc	gtattcgtct	taataccctg	ctggcttctc	aactgggtatc	10380

cagagcaaac	acgggcattg	atactatcct	gacaatggaa	accagcggt	taccggaacc	10440
tccgttgagg	gaaggcttct	ttgccaactt	tggtctgcct	aaatatgacc	ctgctgaaca	10500
tggcgatgag	cggtgggtta	aaatccatat	cgggaatggt	ggcggtaaca	cggaaggca	10560
gccttattac	agcggaaatgt	tatccgatac	gtcggaaaacc	agtatgacac	tgtttgtccc	10620
ttatgccgaa	gggtattaca	tgcatagaag	tgctcagattg	ggggttggt	accagaaaat	10680
tacctatgac	aacacttggg	aatctgcttt	cttttatttt	gatgagacaa	aacagcaatt	10740
tgtattaatt	aacgatgctg	atcatgattc	aggaatgacg	caacagggga	tcgtgaaaaa	10800
tatcaagaaa	tacaaaggat	ttttgaatgt	ttctatcgca	acgggctatt	ccgccccgat	10860
ggattttcaat	agtgccagcg	ccctctatta	ctgggaatgt	tctattacac	cccgatgatg	10920
tgcttccagc	gtttgctaca	ggaaaaacaa	ttcgacgaag	ccacacaatg	gataaactac	10980
gtctataatc	ccgccggcta	tatcgttaac	ggagaaatcg	ccccctggat	ctggaactgc	11040
cgcccgctgg	aagagacact	cctggaatgc	caatccgttg	gatgccattg	atccggatgc	11100
cgctgcacaa	tatgaccgga	cacactataa	agttgccacc	tttatgccc	tggtggatca	11160
acttattctg	cgccggcgata	tgccctatcg	cgaactgacc	cgcgatgcgt	tgaatgaagc	11220
caagatgtgg	tatgtgcgtg	ctttggaatt	gctgggtgat	gagccggagg	attacggcag	11280
ccaacagttg	ggcgaccgtg	ctctttccgt	ggcgggcaac	cacactgtgc	aagcgggcta	11340
tcaacaagac	cttacggcgc	tagacaacgg	agaagggtgc	actcaacccc	gcaacgctaa	11400
ctcgttggtg	gtttggtcct	gccggaatat	aacccggaat	caaccgatta	ctggcaaac	11460
tgctgttgcg	cctggttaac	ctgcgccata	atccttccat	gacgggcaac	cgttatcgct	11520
ggcgaattac	gcgagcctac	gatccgaatg	tgctgtctac	cagtatggtg	cagccttctc	11580
agggcggtag	tgcatgtctg	cccggcacat	gtcgtttata	ccgcttccc	gtgatgtcgg	11640
agcgggccc	caatctggtg	gcgcaattaa	cccagttcgg	cacctctctg	ctcagtatgg	11700
cagagcatga	tgatgccgat	gaactcacca	cgttgctact	acagcagggt	atggaactgg	11760
cgacacagag	catccgtatt	cagcaacgaa	ctgtcgtatg	agtggatgct	gatattgtctg	11820
tattggcaga	gagccgcgc	agtgcacaaa	atcgtctgga	aaaataccag	cagctgtatg	11880
acgaggatat	caaccacgga	gaacagcgtg	cgatgtcact	gtttgatgctg	gcggcaggctc	11940
agtctctggc	cgggcaggcg	ctctcagtag	cagaaggggt	ggctgactta	gttccaaacg	12000
tgctcggttt	cgcttgtggc	ggcagtcgtt	ggggggcagc	actgctgct	tccgcctccg	12060
tgatgtcgt	ttctgccaca	gcttcccaat	attccgcaga	caaaatcagc	cgttcggga	12120
cctaccgcgc	ccgccgtcag	gagtgggaaa	ttcagcgtga	taatgctgac	ggtgaagtca	12180
aacaaatgga	tgcccagctg	gaaagcctga	aaatacgcgg	cgaagcagca	cagatgcagg	12240
tggaatatca	ggagaccag	caggcccata	ctcaggctca	gttagagctg	ttacagcgta	12300
aattcacaaa	caaagcgctt	tacagttgga	tgccgcggcaa	gctgagtgt	atctattacc	12360
agttctttga	cctgaccag	tccttctgcc	tgatggcaca	ggaagcgctg	cgccgcgagc	12420
tgaccgacaa	cggtgtttacc	tttatccggg	gtggggcctg	gaacggtagc	actgcgggtt	12480
tgatggcggg	tgaacggtt	ctgctgaatc	tggcagaaat	ggaaaaagtc	tggtcggagc	12540
gtgatgagcg	ggcactggaa	gtgaccgcta	ccgtctcggt	ggcacagttc	tatcaggcct	12600
tatcatcaga	caactttaat	ctgaccgaaa	aactcacgca	attcctgctg	gaagggaaag	12660
gcaacgtagg	agcttccggc	aatgaattaa	aactcagtaa	ccgccagata	gaagcctcag	12720
tgcgattgtc	tgatttgaaa	atcttctcagc	ataccccgga	aagctttggc	aatacccgctc	12780
agttgaaaca	agtgaagtgc	accttgccgg	cgctgggttg	tccgtatgaa	gatatccggg	12840
cggtgtctgaa	ttacggcggc	agcatcgta	tgccacgcgg	ttgcagtgt	attgtctct	12900
cccacggcgt	gaatgacagt	ggtcaattta	tgctggattt	caacgattcc	cgttatctgc	12960
cgtttgaaag	tatttccgtg	aatgacagcg	gtagcctgac	gttgagtttc	ccggatcgca	13020
ctgatcgaca	gaaagcgctg	ctggagagcc	tgagcgatat	cattctgcat	atccgctata	13080
ccattcgctt	tttaattaaa	cattgtgata	ggcaggctcc	tgagggagcc	tgtttaaggga	13140
gtttttatgc	agggttcaac	acctttgaaa	cttgaaatac	cgctattgcc	ctctggggggc	13200
ggactactaa	aaggaattggg	agaagcactc	aatgccgtcg	gagcggaaag	ggagctgcat	13260
tttactgccc	tctgtccgac	tctgtccggc	gtgggtcgtt	gccgggtgta	tcactgaatt	13320
acagcagtag	tgctggcaat	gggtcattcg	ggatgggggtg	gcaatgtggg	gttgggttta	13380
tcagcctgcg	taccgccaag	ggcgttccgc	actatacggg	acaagatgag	tatctcgggc	13440
cggatgggga	agtgttgagt	attgtgccc	acagccaagg	gcaaccagag	caacgcaccg	13500
caacctcact	gttggggacg	gttctgacac	agccgcctac	tgttaccgc	tatcagctcc	13560
gcgtggcaga	aaaaatcggt	cgtttagaac	actggcagcc	acagcagaga	cgtgaggaag	13620
agacgtcttt	ttgggtactt	tttactgcgg	atgggttagt	gcacctattc	ggtaagcatc	13680
atcatgcacg	tattgctgac	ccgcaggatg	aaaccagaa	tgcccgtctg	ctgatggagg	13740
aaaccgtcac	gcataccggg	gaacatattt	actatacact	tcgggcagaa	gacgatcttg	13800
actgtgatga	gcatacgactt	gctcagcatt	cagggtgttac	ggcccaccgt	tatcctggca	13860
agtcactat	ggcaatactc	agccggaaac	cgcttttttc	gcggtaaaat	caggatatccc	13920
tggtgataat	gactgggtgt	ttcatctggt	atttgattac	ggtgagcgct	tatcttcgct	13980
gaactccgta	cccgaattca	atgtgtcaga	aaacaatgtg	tctgaaaaca	atgtgtctga	14040
aaaaatggcgt	tgctgtccgg	acagtttctc	ccgctatgaa	tatgggtttg	aaattcgaac	14100
ccgtcgcttg	tgtcgccaag	ttctgatgtt	tcactcagctg	aaagcgctgg	caggggaaaa	14160
gggtgcagaa	gaaacaccgg	cgctgggttc	ccgtcttatt	ctggattatg	acctgaacaa	14220
caaggtttcc	ttgctgcaaa	cgcccgcgag	actggcccat	gaaacggacg	gtacgccagt	14280
gatgatgtcc	ccgtggaaa	tggattatca	acgtgttaac	catggcgtga	atctgaactg	14340
gcagtccatg	ccgcagttag	aaaaaatgaa	cagtttgacg	ccataccaat	tggttgattt	14400
atatggagaa	ggaatttccg	gcgttacttt	atcaggatac	tcagaaagcc	tggtgttacc	14460
gtgctccggt	acgggatatc	actgccgaag	gaacgaatgc	ggttacctat	gaggaggcga	14520

aaccactgcc	acatatcccg	gcacaacagg	aaagcgcgat	gttggtggac	atcaatgggtg	14580
acgggcgctct	ggattgggtg	attacggcat	cagggttacg	gggctaccac	accatgtcac	14640
cggaagggtga	atggacaccc	tttattccat	tatccgctgt	gccaatggaa	tatttccatc	14700
cgcaggcaaaa	actggctgat	attgatgggg	ctgggctgcc	tgacttagcg	cttatcgggc	14760
caaatagtgt	acgtgtctgg	tcaaataatc	cggcaggatg	ggatcgcgct	caggatgtta	14820
ttcatttgtc	aaataagcca	ctgccggttc	ccggcaaaaa	taagcgctcat	cttgtcgcat	14880
tcagtgatat	gacaggctcc	gggcaatcac	atctggtgga	agttacggca	aatagcgtgc	14940
gctactggcc	gaacctgggg	catggaaaat	ttggtgagcc	tctgatgata	acaggcttcc	15000
aaattacggg	gaaacgttta	acccccacag	actgtatatg	gtagacctaa	atggctcagg	15060
caccacccga	ttttatttat	gcccgcataa	cttaccttga	actctatgcc	aatgaaagcg	15120
gcaatcattc	tgctgaacct	cagcgtattg	atctgccgga	tggggtacgt	tttgatgata	15180
cttgtcgggt	acaaatagcg	gatacacaag	gattagggac	tgccagcatt	attttgacga	15240
tcccccatat	gaagggtgcag	cactggcgat	tggatatgac	catattcaag	ccttggctgc	15300
tgaatgccgt	caataacaat	atgggaacag	aaaccacgct	gtattatcgc	agctctgccc	15360
agttctggct	ggatgagaaa	ttacaggctt	ctgaatccgt	gatgacgggtg	gtcagctact	15420
taccgttccc	ggtgcatgtg	ttgtggcgca	cggaaagtgc	ggatgaaatt	tccggtaacc	15480
gattgaccag	ccattatcat	tactcacatg	gtgcctggga	tggctctggaa	cgggagtttc	15540
gtggttttgg	gcgggtgacg	caaactgata	ttgattcacg	ggcagtgcg	acacagggga	15600
cacatgctga	accaccggca	ccttcgcgca	cggttaattg	gtacggcact	ggcgtacggg	15660
aaagtcatat	tcttctgccc	acggaatatt	ggcaggggga	tcaacaggca	tttccccatt	15720
ttaccccacg	ttttaccgct	tatgacgaaa	aatccggtgg	tgatatgacg	gtcacgccga	15780
gcgaacagga	agaatactgg	ttacatcgag	ccttaaaagg	acaacgttta	cgcagtgagc	15840
tgtatgggga	tgatgattct	atactggccg	gtacgcctta	ttcagtggtg	gaatcccgcga	15900
cccaagtacg	tttgttaccg	gtgatgggat	cggacgtgcc	tgcggtaactg	gtttcgggtg	15960
ccgaatcccg	ccaataccga	tatgaagggg	ttgttaccga	ttccacagtg	cagccaaaag	16020
attgtcctta	aatatgatgc	gttaggattt	ccgcaggaca	atcttgagat	tgcttattcg	16080
agacgtccac	agcctgagtt	ctcgccttat	ccggataccc	tgcccgaaac	acttttcacc	16140
agcagtttcg	acgaacagca	gatgttcctt	cgtctgacac	gccagcgttt	ttcttatcac	16200
catctgaatc	atgatgataa	tacgtggatc	acagggtcta	tggataacctc	acgcagtgac	16260
gccagttatt	atcaagccga	taaagtgcgg	gacggtggat	tttcccttga	atgggtttct	16320
gccacagggtg	caggagcatt	gttgttgctt	gatgccgcag	ccgattatct	gggacatcag	16380
cgtgtagcat	ataccgggtcc	agaagagcaa	cccgcctattc	ctccgctggt	ggcatacatt	16440
gaaaccgcag	agtttgatga	acgatcgttg	gcggcttttg	aggaggtgat	ggatgagcag	16500
gagctgacaa	aacagctgaa	tgatgcgggc	tggaaatcgg	caaaagtgcc	gttcagtgaa	16560
aagacagatt	tccatgtctg	ggtgggacaa	aaggaaattta	cagaatatgc	cgggtgcagac	16620
ggattctatc	ggccattgggt	gcaacgggaa	accaagctta	cagggtcaaac	gacagtgacg	16680
tgggtagacc	attactgtgt	tatcaccgca	acagaggatg	cggctggcct	gcgtatgcaa	16740
gcgcattacg	attatcgatt	tatggttgcg	gataaaccca	cagatatcaa	tgataactat	16800
cacaccgtga	cgtttgatgc	actggggacg	gaaaccagct	tccggtttctg	ggggactgaa	16860
aacggtgaaa	aacaaggata	tacccttgcg	gaaaatgaaa	ctgtcccttt	tattgtcccc	16920
acaacgggtg	atgatgctct	ggcattgaaa	cccggcatac	ctggtgcagg	gctgatgggt	16980
tatgccccctc	tgagctggat	ggttcaggcc	agcttttcta	atgatgggga	gctttatgga	17040
gagctgaaac	cggctgggat	catcactgaa	gatggttatc	tcctgtcgct	tgcttttcgc	17100
cgtggctatc	aaaataaccc	tgccgctgcc	atgccaaagc	aagtcaattc	acagaaacca	17160
ccccatgtac	tgagtgtgat	caccgaccgc	tatgatgccg	atccggaaca	acaattacgt	17220
caaacgttta	cgtttagtga	tggttttggtg	cgaaacctta	caaacagccg	tacgccatga	17280
aagtgggtgaa	gcctgggtac	ctgatgagta	tggagccaat	gtggctgaaa	atcaaggcgc	17340
ccctgaaacg	ggcgattaca	aatttcccg	tgggaatttt	cccggacgta	cagaataatta	17400
acgggaaaaag	gcaaaagccc	tgcggttagct	ttcaaaccgt	attcctgaaa	taatttgggc	17460
aactatgtca	agttgaccaa	aaaatgccc	gcaggatatg	tatgccgata	cccattacta	17520
tgatccgttg	gggcgtgaat	atcagggttat	cacgccaaag	gcgggttgcg	tcgatcctta	17580
ttactccctt	ggtttgtggt	gaatgaagtt	gaaaatgaca	ctcccgggtga	atgacagcat	17640
aaagctcagt	gatgcctgtt	cactgaacag	acatcactcc	atttaggaat	gaatcatgaa	17700
gaatttcggt	cacagcaata	cgccatccgt	caccgtactg	gacaaccgtg	gtcagacagt	17760
acgcgaaata	gcctgggtatc	ggcaccgccga	tacacctcag	gtaaccgatg	aacgcatacac	17820
cggttatcaa	tatgatgtc	aaggatctct	gactcagagt	attgatccgc	gattttatga	17880
acgccagcag	acagcagtg	acaagaacgc	cattacaccc	aatcttattc	tcttgcatac	17940
actcagtaag	aaggcattgc	gtacgcaaa	tgtggatgcc	ggaaccctg	tcgccttgca	18000
tgatgttgcc	gggcgtcccg	ttttagctgt	cagcgccaat	ggcgttagcc	gaacgtttca	18060
gtatgaaagt	gataaccttc	cgggacgatt	gctaacgatt	accgagcagg	taaaaggaga	18120
gaacgcctgt	atcacggagc	gattgatttg	gtcaggaaat	acgccggcag	aaaaaggcaa	18180
taatttggcc	ggccagtgcg	tggtccatta	tgatcccacc	ggaatgaatc	aaaccaacag	18240
catattgtta	accagcatac	ccttgtccat	cacacagcaa	ttagtgaag	atgacagcga	18300
agccgattgg	cacggtatgg	atgaatttgg	ctggaaaaac	gcgctggcgc	cggaaagctt	18360
cacttctgtc	agcacaacgg	atgctaccgg	cacgggtatta	acgagtacag	atgctgccgg	18420
aaacaagcaa	cgtatgcctt	atgatgtggc	cggctgtgctt	caaggcagtt	ggttggcgct	18480
gaaggggaaa	caagaacaag	ttatcgtgaa	atctctgacc	tattcggtcg	ccagccagaa	18540
gctacgggag	gaacatggta	acgggatagt	gactacatat	acctatgaac	ccgagacgca	18600
acgagttatt	ggcataaaaa	cagaacgtcc	ttccggtcat	gccgctgggg	agaaaatttt	18660

acaaaacctg	cgttatgaat	atgatcctgt	cggaaatgtg	ctgaaatcaa	ctaattgatgc	18720
tgaattacc	cgcttttggc	gcaaccagaa	aattgtaccg	gaaaatactt	acacctatga	18780
cagcctgtac	cagctgggtt	ccgtcactgg	gcgtgaaatg	gcgaatattg	gccgacaaaa	18840
aaaccagtta	cccattcccc	ctctgattga	taacaatact	tatacgaatt	actctcgcac	18900
ttacgactat	gatcgtgggg	gaatctgacc	agaatcgcat	aattcacgat	caccggtaat	18960
aactatacaa	cgaacatgac	cgtttcagat	cacagcaacc	gggctgtact	ggaagagctg	19020
gcgcaagatc	ccactcaggt	ggatatgttg	ttcacccccg	gcgggcatca	gacccggctt	19080
gttcccggtc	aggatctttt	ctggacaccc	cgtagcgaat	tgcaacaagt	gatattgggtc	19140
aatagggaaa	atacgacgcc	tgatcaggaa	ttctaccggt	atgatgcaga	cagtcagcgt	19200
gtcattaaga	ctcatattca	gaagacaggt	aacagtgagc	aaatacacgc	aacattatat	19260
ttgccagagc	tggaatggcg	cacgacatat	agcggcaata	cattaaaaga	gtttttgcag	19320
gtcatcactg	tcgggtgaagc	gggtcaggca	caagtgcggg	tgctgcattg	ggaaacaggc	19380
aaaccggcgg	atatcagcaa	tgatcagctg	cgctacagtt	atggcaacct	gattggcagt	19440
agcgggctgg	aattgggaca	gtgacgggca	gatcattagt	caggaagaat	attaccccta	19500
tgggggaacc	gccgtgtggg	cacccgaaat	cagtcagaag	ctgattacac	aagccggcgt	19560
tattctggca	aagagcggga	tgcaacaggg	ttgtattact	acggctatcg	ttattatcaa	19620
tcgtggacag	ggcgtatggt	gagtgtagat	cctgccgggt	aggccgatgg	tctcaatttg	19680
ttccgaatgt	gcaggaataa	ccccatcggt	ttttctgatt	ctgatggctg	tttccccggt	19740
caggggtgtcc	ttgcctggat	agggaaaaaa	gcgtatcgaa	aggcagtcga	catcacgaca	19800
gaacacctgc	ttgaacaagg	cgcttccttt	gatacgtttc	tgaaattaaa	ccgaggattg	19860
cgaaacgtttg	ttttgggtgt	gggggtacaa	gtctgggggt	gaagcggcca	cgattgcagg	19920
agcgtcgctt	tgggggatcg	tcggggctgc	cattgggtgt	tttgtctccg	gggcgggtgat	19980
gggggttttt	gcgaacaaca	tctcagaaaa	aattggggaa	gttttaagtt	atctgacgcg	20040
taaactgttct	gctcctgttc	aggtaggcgc	ttttgtgttc	acatcgcttg	tgacgtctgc	20100
actatttaac	agctcttcga	caggtaccgc	catttcgcga	gcaacagcgg	tcaccgttgg	20160
aggattaatg	gcttttagccg	gagaacataa	cacgggcatg	gctatcagta	ttgccacacc	20220
cgccggacaa	agtacgctgg	atacgcctcag	gcccggtaat	gtcagcgcgc	cagagcgggt	20280
agggcactat	caggcgcaat	tattggcggc	atattacttg	gccgccatca	gggaagtctt	20340
gagctgggtg	aacgggcagc	gattgggtgt	atgtatgggt	ctcgatgggg	aaggatcatt	20400
ggtaacttat	gggatggccc	ttatcggttt	atcggcaggt	tactgctcag	aagaggcatt	20460
agctctgcc	tttcccacgc	tgctcagttcc	aggagctggt	ttggccgaat	gataggagaa	20520
agtgtcggga	gaaatatattc	tgaagtatta	ttaccttata	gccgtacacc	cgggtgaatgg	20580
gttgggtgcag	ccattggcgg	gacagccgcg	gccgctcatc	atgccgttgg	aggggaagtt	20640
gccaatgccc	ctagccgggt	tacctggagc	ggcttttaagc	gggcttttaa	taagctttc	20700
tttaacgcct	ctgcacgtca	taatgaatcc	gaagcataac	aatcatgttc	attcccactt	20760
tgtcatggat	gacaagggtg	gtttttcgga	tgtgtggaca	gagaccctga	caggggtctt	20820
gtccagttaa	tttttggtatc	aagaacgaat	ggtgtaacgg	atatgcaaaa	tgatatcgct	20880
caggctgagc	aataagcttt	tctgtttacc	actgataccg	ggaaaactga	gggttaattgt	20940
gccgttatcg	gccacaggaa	gcccttcaaa	ttggcaggtac	ttagcatcat	tgaaatccat	21000
ctggaattga	ccactgtcat	tcatgccatg	tgagatcaca	atcgctttgc	agccacgtgg	21060
catcattgta	ctgccgccat	aactcagtat	tgcccggaca	tcctgataag	gccctaaaag	21120
ggcaggtaac	gtcacactga	tttgtttgat	acggcgtgta	ttacctaaac	cgtcaggata	21180
atcggtagca	atatcagat	ccgataattt	gaggctgggt	tgcaagttgt	tcccttcgac	21240
gttcaaaccg	ttaagcggtg	gccttcgact	gccttcacct	gcattgacta	actcagtcac	21300
tttatctttt	aaaatgaaac	tattttctgt	cagaccagca	tacacttcag	ccagagaaac	21360
ggttctgggtg	acctccagtg	cccgttcatc	tttttccaaa	tagctttttt	ccatctgtgc	21420
taaattcagc	atcagggttt	cacccgctaa	taaaccgcga	taagtcccat	gccaagcacc	21480
tggtttaata	aagctgtgct	ccgcatttat	caattcatac	tgataagttt	gctctgccat	21540
taaacagagt	gagacggcca	aatcataaaa	ctgataataa	atagcggaca	acgtttccacg	21600
gagccagttg	tatagcgctg	cattactgaa	tttactttgc	agaaaggcta	actgcgcctg	21660
agtttgtgcc	tgctgagttt	ccagatagtt	tttttgtaat	actgccgctt	cacgacgtac	21720
agccagcgtc	gctaattgag	catcaatttg	ttttatctca	gcttccgcac	tattgcgctg	21780
aattttccac	cttgccgcac	ggcgacggta	tatttctgat	tggttgattt	tgtctgcggc	21840
aatacgtggt	gctgacgcag	aaatttcgat	accaatcgca	ctggcattga	aaagcgcctc	21900
aaaacgggaa	cctcccacag	caaaaccgta	aatatggggg	acgagatctg	ccgcggcggc	21960
ggccatatgc	agggctgtgc	cgctgggtgt	caagaccgat	gaagagaggt	aaagatccat	22020
cgctgtgttt	tcaccagcgt	taacatcttc	gtcgtacagc	gtattgaaac	tgcaaaaacg	22080
agactgtgca	ccatgacggc	tttcttgaag	gcctaattta	tcagcatcaa	tttcagccat	22140
gaccttatcc	tgcatttttaa	tactttgcag	ggctaactca	ctgccttgag	tttgcagtat	22200
ttcagccaag	gcttctgcat	cctgcccgtt	agtaatgctg	agcagggtat	tgccaaattg	22260
tatcaactgg	cttacccccc	acttggcatt	ttccagaaatc	accggaaaaa	ggtacatcgg	22320
catcactgca	tgaggtataa	cgccgcccgc	ttgtgaagca	gtgatggcag	cactgagtaa	22380
catggacgga	tctgcgggcg	tggcatagag	agataatgac	agtggctgac	cgctcagttgt	22440
caggttatgg	cgtaagttat	agagggcgtg	cgtaaatgtc	tgccagtaac	cttgcagttt	22500
tttattaatt	tgagggagga	acaatgcggt	taacgaaatt	tgccgtacgt	ttcgtgggta	22560
atgcagcgcg	tgcagcaggt	tgacagcatt	tatgttgata	atgatgccgc	attgtttggc	22620
tggcagcttc	ttccagccgt	ggctctgacc	aatcgttatc	caatgaaaaa	taaggctcat	22680
caccaataa	agtgagcgcc	tgtacatacc	acatttttagc	ttcgtttaag	gtatcacggt	22740
caagctggcg	ataggcgcta	tctccgcggg	taatcaacaa	atccagcatt	ttcataaagg	22800

tagccacttt	atagtgcatc	ggatcatgct	gggcaacggc	gtccggatcg	accgaatcca	22860
gcggtattggc	attccaggac	gtatcttcct	ccaatgggcy	gacgttccag	taataatcct	22920
gcatttcacc	ctgaaccgaa	tatccggctc	ggttcagata	tagcgcagcc	agcgtgtcga	22980
tccggtaaaaa	tctgctcttg	caataagcgc	tggaaatacca	tcatgggcyt	tgtaatagaa	23040
caatcccaag	aaatagattg	cattggcgcc	gtttgaaatc	catgggttca	gtgttatitt	23100
tcatgacacg	acttgaatac	cccttttata	ttttttgata	ttttttacta	tcccctgttg	23160
tgatcattccc	gaatcatgat	cggcatcatt	agtgaatata	aattgatttt	tcgtctcatc	23220
aaaataaaaag	aaagcagatt	cccaggattt	gtcatagata	atTTTTTTgt	acccaacccc	23280
taatctgaca	ccttcacgta	tgtaatatcc	tttagcatag	ggaacaaaga	gcgttactgt	23340
ggtttcaata	tcagataaaca	ttccttcgta	ataaggttgt	ctggcagaat	tgccatcaat	23400
attcccaata	tggatcttaa	accaacgttc	atcaccatgc	tcctctttat	tgtagggggg	23460
caacttaaat	gtcgcataaa	acccttcacc	taattgcygg	tctggtaaat	tttgcgtttc	23520
catacttaaa	acattatcaa	taccaatatt	ggctctttca	gctaattttc	tggaataata	23580
agtattttaac	cgggttctgt	aagggccaat	ctgcatatat	tggtgtcctg	atggcatttt	23640
atgcagtgtat	ataacgttac	ttgtatcttt	ggatttttagt	tttatatgaa	ttggcgattc	23700
aataacaata	tcgttataac	cgcggtcggg	ttgcttataa	ataaactcgc	tcaccagagg	23760
aatatcatag	ccttcaatat	caacttttac	ttgattaaaa	tcataatacca	taggggtcaga	23820
ttcgtgtgaa	ggtttagatg	ccacatgggtc	ttcagcattt	aactccacta	gaatatcaga	23880
gccatttttt	aataaaaaaac	taatgttttt	atcttggatc	tggtcgaatc	tagatgaagc	23940
aagttttttt	atctgtgctt	ggttgaacat	aaatacacc	atggatcctc	gcgaaggaa	24000
agtgccgcaa	tatttcccat	gttattaatg	attgaaacat	cattagtaaa	tgattcacat	24060
atagtatgcc	atactcctgt	gttatctttc	caatctaata	ctatgttagt	atcaagtttg	24120
aattcagcat	catctgattc	ataatcataa	tttataccaa	ctccaatttc	tgattttcta	24180
ggaatttttt	ccttggttct	tagatgcatt	aacactctaa	aatattcggc	atTTTTtaaga	24240
tcgatggaaa	taataaaaat	caaagttcca	taatgaaaaa	cttcttcttc	ttttccaaag	24300
atttcatcat	gtctatcata	atcaaataaa	ataaccgttt	catcttctac	catcgataac	24360
aggtatttaa	cctcatcatt	atatataattg	ccttttgaaa	aattaatttc	cattgaaggga	24420
ttgaacgtta	aattaatatg	accatttcct	ggtgatatat	acgagagatc	aaaaatatTT	24480
ccggtaaaaac	tggctaattt	atTTTTtggtg	gttatagatt	ccttatattc	ggccaaataa	24540
tctgtagcaa	attgattgtt	gactttgtat	tctgtcctgg	tatcaagttc	tgataatgtg	24600
ctcttaacaa	tggcgtctaa	atcattttct	gtgagaatgg	ataatgtcat	atcaggggta	24660
atgggtcatcc	cttctcttgc	aggaagacta	ttaaaagaat	aattgtcttt	tttctcatgg	24720
aaataaacia	taatgacgtc	tttttcataa	tcagaagaac	aatacatacc	aatgctggct	24780
tttttattga	tcaggttttc	tattttatca	gtcacattaa	aattaaacgg	tgagctccag	24840
ctgccatcat	aacgaatatg	tgacagtttt	aatatataat	cagtgatata	tatcttgcca	24900
tccttacttt	cattttttcag	ctctttttgt	tccagccaca	gtaaatacaa	acgagacttg	24960
taaataacag	gtctgatatt	ttcctggcat	acattgatgg	gtattttcaat	ttttttccat	25020
tctccccagg	cattggcagc	aaattgaccg	tgctggcact	tttgggtgat	gacattgcgc	25080
caataaatata	tcttgggttc	tgcttggtta	taaccaatta	aataagtgag	cccctcattg	25140
acattaatac	tgctatgata	tccgctaata	acctgcaagt	tagcgacatc	ttcaaagtgc	25200
gtcagataat	ttttaaaagt	atcttcaacg	gtatcgatat	ttaaactgact	ttgggaaagt	25260
tgctgtaaca	ggttgtttcat	catacctgtc	tgaccaatac	gaatcgtggg	gtcgatatag	25320
ttttccggat	aataggccag	ttcagatacg	ccggcccgag	tgctataaccg	tcgatatag	25380
gtttcccgat	cgcagaagaa	ctgacgggtt	ttgactggct	ttgatacttt	tccttcaaca	25440
ttattcaacg	cccgggtgac	atataactga	atgctggcaa	tggtctctgc	cacacgggtg	25500
gttttcactt	gggcagaaac	ttgggttatca	atcagcagat	agctgtacaa	ctcatcccgg	25560
ctcttaatct	gttgaggtgc	accatttttg	atgtagtaag	cactggccgc	tgctcgtcgtg	25620
gcttcatcca	gccatggctg	aagctggctg	gattgttgac	tgttcagtc	cgcctgcgaac	25680
aaagtactgg	cggcttgcca	atcatcaaat	gttggcatcg	gggtttccgg	ttcaccgaca	25740
tattttaatt	ttatgagtgc	agcaacacca	tccggggtaa	tacccaatgt	agcagcgaca	25800
tccagccatt	gcagagtgc	atctataagt	tctccagttg	gtaaagggtat	tcactcccaa	25860
accggtctgt	tgcaatgctt	gtgtcacaa	ctgagcatca	aaatttttaac	gccaccgcca	25920
aatgtgtcgg	cagtcaacgc	tcctaagttc	caaagtctgt	taagattctg	tcgcgtagct	25980
tcacaacgca	tgatcacagc	atggaagcgg	gtcagcgctt	gcaaagtggg	gagatcatgt	26040
tgcatgtctg	tggtttctga	ttggaatttc	tccggttttg	tcaccaacag	ggtcagttcg	26100
ttttccgtga	gtccaatatt	gcgcacaatc	agagaaagtt	gccccagtac	ctgacaaaaa	26160
gccaccatgt	tgctggtttc	attctctgag	cgatcacggt	tagccgcaat	aatcatgaaa	26220
tcacggaatg	tcagtccttg	tggtttttatc	gtattaatcc	acagcaaaat	agtttctgtc	26280
gttttggctg	aatccatttg	aatgctggca	gcaatcagcg	gggcagctgc	acggatcagt	26340
tcgtcatcac	cgagtgaag	tgttgataat	ccattactta	gtgtcgtgat	aagggtttca	26400
atatccggcg	taaggacagt	gctgtaatta	tccgtggcca	tcagaaacac	atcactgaca	26460
gaccatttct	gtgtgtcag	ccactgggtg	cattggaaca	gaaagctgat	taattgcgtt	26520
aatgctgtat	cagaaaaaag	ggcaattttc	gtgttcacat	agggagaaac	cgacaacaac	26580
atggataatt	cattcactgt	cagatgatga	atgtctgcca	gcagacgaac	gcgataaagc	26640
agagacaggt	tctcgatgga	acacataaat	tctggatttg	ttccgcatt	agccagtttc	26700
cataatgtat	acagttcagt	atcattcact	ctgaaagcac	gtttcattat	tcccaataa	26760
aaatgggttt	ttgattcacc	gggggttaaa	tccagtttgg	tattatcagc	agaaaaactc	26820
tggccattta	atagcgggtg	attgaacagc	attgtaaaat	gactgggttg	ttgttttagt	26880
gaatattggc	tgatatctga	atgacacaat	accagcgc	cgctgacgct	aatattatag	26940



tgctgcatat	aatattgaac	ataaaacagc	ttacccaaca	cattgctgtc	aatgggttaa	27000
tcatcataaa	tactttctat	tacttgccag	atatcttctg	gagatatgcc	tgtggcttta	27060
tacaaacgaa	tcgctttatt	cagctttaac	aggaatatat	caccgggaac	tccatcattt	27120
taaagtgtgc	attggcattg	atagcatccg	acggatttgg	ttaactcgcc	ataagcggag	27180
tgttataccg	ttgggtgattt	gctctgtcgt	caatttaattg	ggaatactgt	aatgggtatt	27240
agcaatgggg	acgaaaatttt	tatcttggta	tatatattctt	ttatctccat	tctggagacg	27300
aaaatccaag	tggtcagggtt	ctgttttttt	tacactgaaa	ttatatattgt	attcattttc	27360
tttgattgga	attagctctg	catagtttaa	atgtgaatcg	tagaaatctt	tgcgggttcg	27420
cttaatcaat	cttgccggtg	ccgtatcatt	cccgtcattg	accaatgtta	tcagttgctc	27480
attcttatac	tgttgatttg	tatttttctt	accgaaggag	agattgacaa	ataaactgag	27540
ttcatcataa	gacaaatcgt	agtagcgagc	caaagaagca	taactcttaa	aaatcagtac	27600
atcatctgta	ccgaaatttt	tcttcatcag	ttctgttgaa	ttttccggtg	taatttcttc	27660
tacaaggatt	tgatacaatt	caggcgatat	atcagtcctt	atagccagta	gcgatgttgg	27720
gtccattaat	tccgctacgt	ctgtattacg	gctaaatgcg	gtgaggtttt	tatcttgcaa	27780
taaaattgcc	tgacgggctg	actcatacgg	cagatgatag	gggtgtcatgc	cggtttgccg	27840
gtaagtggac	aacatttttc	ttacaccgtt	atagtcagtt	ttctctaacg	tctgaatatt	27900
atgcagcagt	aattcattag	ataaggataa	tgtggaaatt	tcttcatcca	tattattctg	27960
tgtcagtgcc	agtgaagcaa	tgtcggggcg	tcgtttattc	aggtgatatt	gagaattgtc	28020
aggatgaaaa	tctttcgctt	cccgatataa	ttctgttaaa	taagccgctg	gtgaaaaat	28080
ggaagcaatt	gatcccgggt	ttacaaaacg	gtgggcgcgg	ccataaaacc	aactgttgt	28140
actattgttt	agggttgacg	gtgtaatttt	aattgttagtg	atattagcca	gttgtggatt	28200
agcacgggac	aaaatgcgca	gttcttcaag	tttattctgt	tttgattcct	gatgagcctg	28260
ttgatataaa	aagtctgttt	ctcgccacgt	cagagttcca	cttgtcctat	gacgaaattc	28320
gctgaaagac	ataaacgaaa	tgtttgtcaa	taataaagta	tcaccagcct	ttttctattt	28380
atcttatcta	acagttcatt	aacttttatt	atataaatcc	ttaagttatt	gtcaatttaa	28440
tgattaatgg	tttttaggtg	gagattatta	taatctgata	ggaatattat	ggttaattaa	28500
attgatactg	atttatcgct	ctattctttc	aataaaaaat	aaagaacttc	cctataatac	28560
atggatttaa	ataatgaata	ccgtatgtta	aaaatttaaat	tttaacaaac	tttcatgaaa	28620
aaattcaact	caacaattgt	ttaaatatatt	ttaattgtgt	ttgtgctggt	tgaaaaatga	28680
atgactaata	tttatctatg	aaagattatt	tattgaggat	gtcttgcttg	gtttcagggg	28740
gctacgttgg	agtcagataa	atgtgtgcaa	aaagaaatcc	ttaataaagt	tgcgtaatta	28800
caaaagttag	tatatcgtga	caagagtgat	agtaatgtca	cataatttat	tgaatacccg	28860
aacctcgcaa	atgcgggggt	tttcttcgca	taatcaaaga	gaaagctatg	aaaaaaacac	28920
tgattactct	tattctcagc	accttttctt	ttggtgcttt	ggcacagcag	gggtgcttcg	28980
tttccccgga	cagcacagac	tatactcagg	gtggatttaa	aggtccaact	cccaacttga	29040
ccagcgttgc	tcaagcaaaa	tcttttcgtg	atgatgcgtg	ggttgttctg	gaaggaaaca	29100
ttgttaaaca	ggttgggtcac	gaactctatg	aattcgcggc	cgcataatac	gactcactat	29160
agggatcgct	tattacggac	ttatccggaa	agctatctgg	aacccttgtt	acgcctgaat	29220
aaaaacagata	tcagggataa	cagtgggtct	gtttatgttg	acattgatga	taagcgttgg	29280
atgggtctga	cggccactcc	aactgacaaa	gttcgtatcg	aaggtgaagt	ggacaaagac	29340
tggaaacagt	ttgaaattga	tgtcaaaact	atccgcatag	tgaataaact	caagcacttt	29400
gaatatagcc	ccgcactcgc	gggggttttt	gctttctggg	agtcggaagt	ttaaccgtag	29460
tgacgaggat	caaaactaag	ttaacggcag	tggtcactga	tttgggtgat	aagttatcaa	29520
aagttaaaaa	tcaaaaactta	ttttttattt	aattagaggaa	tgtcaccttg	taggtgaata	29580
acgttgacgg	atgtaaatat	acagtattat	agtcctttga	tatgttatta	aattgaaaaa	29640
cctttaaact	atattcgggg	gaaattatta	tgtcagatgt	tcgtaataat	attaatgttg	29700
ataacaattt	tggttgtgaa	tataaagcgg	atttatttaa	ataagttttc	ataattgtga	29760
tacacccatt	tttctcatcc	ccggtttttg	ctgttgtgaa	gaagcggttt	ccatgaagat	29820
tttgacatgg	ttaagcaact	gccacataaa	ttggcagcag	tggtttcgtg	tcacggtttc	29880
atgcaaggat	tgccatagac	gttcaatttt	attcaaccac	gggcaatagg	tcggtaaaaa	29940
gagaagatta	aatttgggat	tctttgccag	ccaaaccctg	accttcgggc	tcttatgaat	30000
gcaatagtta	tctaaaatta	acgtgatggt	tttggcatta	acataattgat	tgtaaatttc	30060
atctaacaat	ttgataaata	aatctgagtt	ctttctcaag	ctaccgacat	aagtgatttc	30120
tttcgttttc	gcgttgaggc	aattggcaag	gtagtgtttt	tggttctttc	cgggggtaac	30180
aacacgcttt	tgttgccctt	tgaagcacca	gtctgcaccg	attttcgggt	tcagggtgat	30240
gtccacctca	tcctcataga	agaccgggtg	tttctcttga	ggcattggat	aacgtctcgc	30300
tgattttttg	catttttttca	tcatactcag	ggtcaggcaa	ttttacggtt	gggtccgccc	30360
ttcgccaaaac	gatgcccgtc	cggcaaaagt	agcgatagag	ggtaactttga	gagagcgatg	30420
tattcagtag	ctcattgatt	ttaaagtgtaa	taagctcaag	gctccatcgt	gaacggagat	30480
agccaaaatg	ttgtggcgag	tgtgttaata	agaaagaaat	gactgtgaag	agcggagcta	30540
agttccagat	ggcaggcctt	cccgcgggga	ggcttttaag	tccttccaac	ccgtataatg	30600
ttaaccaatt	taccaaacga	tgaacggaag	aacgtgaaca	gtgaagcggt	ctggaaaact	30660
gagaaaaccgt	actcccttca	tgtaacatca	agagcgcggt	gaagcgacgt	gcatagtcct	30720
tatcccgggt	tttctggata	gcttttttca	tcggacgtcg	ttcatttcgg	ggatttgatg	30780
ttatgattgg	catgactcag	tccatttttg	gatttggttt	gatttggcga	ttaatcagat	30840
cgcgaaaaat	ggactgagtt	cccttcaagt	gatctactat	tttgaaatct	tatttaatca	30900
ggagtcagca	aatgagttat	tccccataat	acctgaccat	gtgggtgttt	atccgggaaa	30960
tgattcatct	accggtggta	tgtggattcc	ttggtgcat	agtcagaaaag	atattgactc	31020
tggccattat	atcaaagtta	ctttcagtaa	aaaggacgct	gctgatattg	tgaactacat	31080



gtttcaacat	ggcagttatg	tttattttac	agacagtagt	aaacaattta	gcaataagca	31140
aattatgtct	ggtgattcag	ctaaaggcaa	aggggattat	aagccttga	ttaaaaacaa	31200
cgggaacctt	ccactgatgg	tattgaataa	atattgattc	attattattt	atggataaga	31260
aattaagttt	atatttcata	tgggtttctg	aattaagttt	taaaaattaa	ttctactttt	31320
tttatggttt	tatatatta	gccaatcata	ttatttttct	tataataatt	gatagtttat	31380
ttatatagta	aataaattct	gttggatgtg	attattattg	tgagacggtg	ataattaaca	31440
taacagaaaa	ttcatggtta	ggaaattcaa	tcaacttttg	tccggtttcc	tgaccatgaa	31500
gagctgtatt	tactgtagaa	ctcgcattga	tactggattg	attagccgga	cgagtgttgg	31560
gtcagcagat	aatatgttgt	atattggctg	tggatttttc	agcgagatga	tagctttggc	31620
agtaaaggcg	attaataacc	gataaaacag	agagacggat	tgtggccagg	aaagcaaaaa	31680
agcctcacca	tgacgcgtta	ttcaaacatt	ttttaaccca	accagaaacc	gcccgggaat	31740
ttttatccct	ttatctgccc	gaagcgatcc	ggtcagtggt	tgatttacca	cactaaaact	31800
ggaaccggca	gctttgtgga	caggcaatta	cgtcagttgc	acagtgatgt	gctgtattct	31860
gtcagagacaa	cccacgggga	cggttacatt	tattgcctga	ttgaacacca	gtccacgcct	31920
gatccgttaa	tggcctggcg	gctgatgtat	tattcgctgt	cagccatggc	tgcgcatctg	31980
aaaaaaggag	atactgaact	ccctttgggtc	gtccccctgc	tggtttatca	tgggtgaggtg	32040
aggccttacc	cttactcaaa	tcgatggctg	gattgtttta	cactctctga	acacgcggct	32100
cacctgtata	atcagcccct	gccgttgggtg	gatatacagt	cgctcagtga	tgaagagatc	32160
ctgacacata	aaagcattgc	cttgatggag	ctggtacaaa	aacatatccg	ttgccgggat	32220
atgctggagt	gggttcccca	attgggtggcg	ttgttgaatg	ccggttataa	tagcggcgaa	32280
cagcgccatg	ttgtgttaag	ctatatttta	ctgaatggac	atacgtgga	tctcgcccag	32340
tttgtccatc	aactgactga	acaatctccg	gagcatgaaa	ccatgttgat	gactattgca	32400
gaacagcttg	aacaaaaagg	gcgtgagcaa	ggccggacag	aaggcagaac	agaaggcaga	32460
gctgaaggac	gggaagaagg	caagctggaa	acggcgcgcg	cattattacg	gcattggtgc	32520
agtctggaca	tcattgtcac	cagtaccggc	ctgagccggg	agaaaaattga	agcgtttaaag	32580
cattaaatgg	atacgttttt	tcacagcagg	atatggtgac	ccctgtgagg	ccaccggaaa	32640
attttattta	ctacgattta	cgacgggtta	ctttaggaag	ctgaatgaga	cgctcctttgt	32700
tatataacgg	tcccataatca	atcttctctt	ttccgcgtac	aggtaagtaa	cccaaaccct	32760
cgtgagcagc	atttgccaac	aggccatcat	cctgatcgcc	tgaccaagag	aagatcccgc	32820
ccaatttcat	tttggttgca	taaattccct	tatgcagcac	agtgcggggc	gtatccagtg	32880
aaatccagtg	accaccgtca	gcattaaaga	gtgctgcagc	gtcggtttcc	gtgtctgtca	32940
ccagttcaaa	ctgatttttc	ccgcgtgcaa	tttcatattc	cgcatcgtat	tgggtattca	33000
gcagacagaa	gaattccgga	gcaccttttt	ccatcgtgcc	cagtggctct	cctgttctgt	33060
tatagcggcg	cggtgtcaga	tcagcaccca	gacatgaacg	tccatagtta	gcaaatccga	33120
ggtgaatttt	ctccggttgt	acaccttggg	acagtaaaaa	gcggatcgcc	tcatctgccg	33180
agtaatccat	gtcccgatca	ggattgggcg	gaggagggtt	atcgccgtca	tattcatatc	33240
tggggggata	cagggttagta	tggtgaccga	tgtattctgc	ccaaccggta	ccaaagaagt	33300
cgtaggctcat	cacaaagata	ttgtctaaat	aagggtgcgat	ttctttgaag	ctggacttct	33360
ccattttggc	aacgacggcg	ctacaggcta	tcgtgatttc	tttacgggcc	cgggttccaa	33420
aggcgatggt	cagtgtttca	cgcagctctt	tcactaacia	aacatagttt	gggccatcat	33480
gttccgggtc	gaattcatta	ccttcttcac	ctgtggcgcc	ggggtattcc	cagtcgatat	33540
ccaccgcagt	aaacatggga	aaacgcccgg	aagaagtcga	cgatgctact	cacaaatgta	33600
gcacgttgct	caggatcttt	ggccatcaca	gagaaatacc	ctgacatact	ccagccggcg	33660
atactgaatg	cgagtgtccg	cttatggcct	gctgtttttg	ctcgcgcttt	cagattacgc	33720
aatcccccca	gtaaacggga	ggctgcatcc	tgattgtaat	attgcaagaa	attcttcggg	33780
ctggcatcac	ggcgctgatc	cgctgccaga	ccgacattgc	gtgtggtgcc	taaatcacca	33840
taaggatcaa	cgggtacaat	atggccta	gtaatagggg	caatctggcc	actgctggct	33900
tctgcttgcc	tggttccacc	gtcaacaacc	tcattaatcc	gttcggataa	cttgcttttg	33960
tcaccgttga	cgccataaaa	actgaaaatc	aggcggctgt	aggcggtagg	cgggattttt	34020
tccagatcaa	aaccacggcc	gggggcatcg	tcgctggtca	gcgcagtggt	atcctgggtt	34080
tctggcgaca	aacgcgcata	atactggcac	cagtcagtaa	tataggcaga	gacttttaggc	34140
agcggttctg	tattttccgg	atcaacttca	tattcgttgt	acagggactt	ggcaacacgt	34200
gctgaagaat	aactcaaagg	agttccgctg	ccgtcaggtt	tatatccac	cttctgatag	34260
gtttcttctg	tgagtgcata	atattgcaat	acctcggttt	tttctcccg	cggtacatca	34320
ggcgtattgg	ggttaccgtg	atcggcaatt	tcttccgggtg	tcgcctcacg	gacatattgc	34380
caggcattct	cataaacggg	taaatcagggt	gaaatattgc	ggtcggggaat	atgccagcgt	34440
tcaaccagc	cgatgttttt	aaaaaccggc	ctatcataaa	tgacatacca	ggtttgacca	34500
ccagattgat	tctgcaggc	aaccagagat	cgccctactt	cgctgctggc	gtcagacatc	34560
gctttaattg	aagggtatcg	ataaacattt	tgagacataa	tttacttcc	ggccccgtta	34620
tattccgggg	ccggctcctg	atatcagtta	gaattgtctt	gttttaattg	atgtttattc	34680
agacggctac	gaacctgtcg	gctgaactca	ttacttccgc	cactcacatc	acgcgcggta	34740
taacgcagat	ggagataaat	atcgctcagc	gactccagca	gctgatactg	atcggaaaccg	34800
aattccaatt	ttcactgtga	aatggcgcc	gtcccttcaa	aaggcaggaa	aagtttcatca	34860
tcaaaattga	gcctgaacat	gccgctgtct	tccatggccg	ttgaaatcac	cacaccttga	34920
ttagcctgta	cgttcagcaa	aacgttttctg	ggtttggtgt	attccaaggg	gttaagcaaaa	34980
taactgatag	tttttaagtc	agcagtagtc	taaagcgtat	tgctgagttg	taccagttaa	35040
gcccgtacat	tttcataagg	ccccagcaat	cgggcaatg	acagcgctac	gggttttata	35100
cgccgatcag	cgtgggtcgg	ataatcgcg	aagaacattt	cggcgctcag	taagaaagtg	35160
aatgaacccg	tactcttgcc	aatttccac	tgtgatgatg	tcagtaatga	ttttaccgat	35220

atgggttttta	tgatctccag	acgtctgggtg	ttatgttgca	aatacgccctg	atccatccgt	35280
tgtaaggcta	atttcagatg	ttctccgacc	agcagcccct	gataaagatc	attccagaga	35340
ccacttttga	cgaaattcat	atcatactga	cctgtttcgt	actgccagga	ggcttcggcc	35400
agtaaacaga	gggaattaac	cgcatacatag	gcttgcaggt	aaagccggag	at ttggctga	35460
tcataccacat	gtataacgca	tcattgggtan	anttgttcnn	nnnnnnnnnn	nnnnnnnnnc	35520
ccgaagcata	ccgcccaagac	catccccccg	acggccagac	cgaaaatatt	gggaaccata	35580
tccgccacag	cggccgcagt	ggcggctgac	tgggcagcga	tcacaccttc	agccgctctt	35640
gattgtaaatg	cgataaacttc	ctgctcgggtg	atggagatgt	tttcatcata	gagcgattta	35700
tagtggttgct	ggcgctcctg	agcggccccgt	cggctgatgg	tcagtgcatac	caatgaagcc	35760
tggtgcatgt	caatcgcttg	ctgttgacaga	ttgctgggtaa	agctgtacag	ccccagttgc	35820
tgctgcatac	ggaagtgttc	aaaatcggtg	ttgtcttttt	tctccagcaa	actcaacatt	35880
gtgctgccgt	actgaatcag	cgtttctgctg	gcctcttttg	cccggctcat	gatcgggggtg	35940
aaacgataat	tcgggattgc	ccggcggtttc	atgcccgcga	tacgatttagc	cacaacacgc	36000
tggtaacgct	gcctgagcag	atcttgccggg	ctgatgggtt	catcgataaa	tccggccgga	36060
aactctttac	catccaaggt	caggttatga	ggttaagttat	atagacgctg	atccaacatt	36120
tgccacagtt	tgagatatct	cgtatcaaca	ggtttgacaa	ataaatcaga	cgggtgcggca	36180
gagacggatg	tatcatatgt	cacaggcaga	agtggcacgt	tgctgacagt	aagcattaac	36240
tcctgtgccc	gtgcttcact	gttttcatac	agagccacat	cttgacagct	acgggggttg	36300
cagtttgccg	cgagcagaat	atcagggtctg	gtacccagta	acatattgac	ggagtcatag	36360
atctgcttgg	cgacagtacg	tgacttggtat	gtcagctttac	ggatttccat	gtctccctga	36420
tctaacagat	tcttgacata	gaaacggaat	attgctttcc	ggtagtgaat	gggttcactg	36480
gctgcaatgg	catccggatc	ggtttggttca	attaacatcc	ggtacacggg	gggtggaggga	36540
tcaataattg	gccgtgaatt	ccagtaacgc	ggtttacctt	ggttgctggc	ctgaacaagt	36600
tcactttcca	gcggattaaa	aatatagtgc	agccattcgg	tgccctcttt	taatcgttgt	36660
tctatattca	gtcgccacgc	gaccagaaat	ggcatatgga	aaaacagttc	ccagaaatag	36720
atcccatttg	cgccatttaa	atcaatcggc	gtagggaatg	aaccgggtat	aggctgttcg	36780
gtaataagct	gtgtattcca	gctcagtacc	tgcgggatac	cctgactggc	aatggcgatc	36840
agtttttttg	caaacagtg	attaaggcga	atgttttggtg	gcgcgttatc	agtttcatct	36900
gcggggaagg	aaaggaattg	cacctgatcc	tggttcattga	gtttaatcag	ttcgcgaaata	36960
tgcataccga	ttctgaactc	ttgagtacag	ctggcacttt	cattgccaac	accacctttg	37020
ggcttaaaga	gaagtccggc	tttcagggtg	attcgattat	ccgaccccag	cttgattgat	37080
ggatagggtta	aatcaagaac	tttttcgctc	agtaaccagt	gttggttcac	caagacagta	37140
ttatcgtgca	tcagccggaa	agaaccgttg	taatattgat	gatcttctat	cgcaccaaac	37200
ttaaagtcag	attgagcgac	aatctccagt	gtgtcatcag	tgccatgaac	aaaattgaca	37260
atcagtttga	tactgtcttt	gccgaaatca	gggttcattc	cggtttggtat	tctccggcaa	37320
taggaaagcg	ttcttcccgg	gttgccggat	agagcaccat	agtacggtaa	tcgataggat	37380
tgccttaagg	catccttggtg	ttcacgtgag	taataaccaga	ccaggttgcc	gacataatctt	37440
ccttttctgc	catcagcata	ttggtcatcc	ggcaaatcag	taatttctac	cagcagtgtg	37500
tcgcagacat	aaccgaaggc	ttcgtcataa	tcataatcct	tacctttctt	atctgtcccc	37560
tgaagacgga	caaacggaac	cagagccaga	aacgggttat	gcgggtcttg	ctgtatatcc	37620
atcacagcaa	ccatctgggc	catccgggtat	tgcagatgtc	ttcgcgcaga	atgggtgggtg	37680
tactccagct	gccatcatat	ttggcataag	cgattttgat	ccggtcagga	acgggtgtggg	37740
aggaacccaa	tcacccgcac	taggctcaac	gttttggtta	tgcagtgata	acgcagttgt	37800
atcttttagtt	tcagactggt	cttcaacttc	cgtccaggca	atatacaggc	gattattcag	37860
gaaaatgggg	cgtatcaaat	tggggtctac	gctgcccaat	ggcaggtcaa	taggtttcca	37920
ctcgctccag	gcattgggag	ataacgcatac	ggtatcagga	tggcgtatcg	aaagattcag	37980
tgaacgccag	taatattggt	atggctgtgt	acgggtacgt	ccgacaaaga	agaacttatc	38040
gcgttttgatg	ttaacacat	cttcataacc	tgcgataact	ttcaggttac	tgacatcttc	38100
aaaattattc	agataaccga	gcaccgcttg	ttgtacagaa	tcttcggtaa	tttttccctg	38160
attaagggca	ctttccagtt	ggaagaagaa	ttctgtttta	ttcaggcgta	acagggggtc	38220
cagatagctt	tccggataag	tccgtaataa	gcgatccc			38258